

## SEQUENCE LISTING

## (1) GENERAL INFORMATION

5                   (i) APPLICANT: DEEN, KEITH C  
                      YOUNG, PETER R

(ii) TITLE OF THE INVENTION: TUMOR NECROSIS FACTOR RELATED  
                      RECEPTOR, TR6

10                  (iii) NUMBER OF SEQUENCES: 4

(iv) CORRESPONDENCE ADDRESS:

- 15                  (A) ADDRESSEE: RATNER & PRESTIA  
                      (B) STREET: P.O. BOX 980  
                      (C) CITY: VALLEY FORGE  
                      (D) STATE: PA  
                      (E) COUNTRY: USA  
                      (F) ZIP: 19482

20                  (v) COMPUTER READABLE FORM:

- (A) MEDIUM TYPE: Diskette  
                      (B) COMPUTER: IBM Compatible  
                      (C) OPERATING SYSTEM: DOS  
                      (D) SOFTWARE: FastSEQ for Windows Version 2.0

25                  (vi) CURRENT APPLICATION DATA:

- (A) APPLICATION NUMBER: TO BE ASSIGNED  
                      (B) FILING DATE: 09-MAY-1997  
                      (C) CLASSIFICATION: Unknown

30                  (vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 60/041,230  
                      (B) FILING DATE: 14-MAR-1997

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## (viii) ATTORNEY/AGENT INFORMATION:

- 5                   (A) NAME: PRESTIA, PAUL F.  
                  (B) REGISTRATION NUMBER: 23,031  
                  (C) REFERENCE/DOCKET NUMBER: GH-50008

## (ix) TELECOMMUNICATION INFORMATION:

- 10                  (A) TELEPHONE: 610-407-0700  
                  (B) TELEFAX: 610-407-0701  
                  (C) TELEX: 846169

## (2) INFORMATION FOR SEQ ID NO:1:

- 15                  (i) SEQUENCE CHARACTERISTICS:  
                  (A) LENGTH: 3,881 base pairs  
                  (B) TYPE: nucleic acid  
                  (C) STRANDEDNESS: single  
                  (D) TOPOLOGY: linear  
 20                  (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

	CTTTGCGCCC ACAAAATACA CCGACGATGC CCGATCTACT TTAAGGGCTG AAACCCACGG	60
25	GCCTGAGAGA CTATAAGAGC GTTCCCTACC GCCATGGAAC AACGGGGACA GAACGCCCG	120
	GCCGCTTCGG GGGCCCGGAA AAGGCACGGC CCAGGACCCA GGGAGGCGCG GGGAGCCAGG	180
	CCTGGGCCCC GGGTCCCCAA GACCCTTGTG CTCGTTGTCG CCGCGGTCTT GCTGTTGGTC	240
20	TCAGCTGAGT CTGCTCTGAT CACCAACAA GACCTAGCTC CCCAGCAGAG AGCGGCCCCA	300
	CAACAAAAGA GGTCCAGCCC CTCAGAGGGA TTGTGTCCAC CTGGACACCA TATCTCAGAA	360
30	GACGGTAGAG ATTGCATCTC CTGCAAATAT GGACAGGACT ATAGCACTCA ATGGAATGAC	420
	CTCCTTITCT GCTTGCCTG CACCAAGGTGT GATTCAAGGTG AAGTGGAGCT AAGTCCCTGC	480
	ACCACGACCA GAAACACAGT GTGTCAGTGC GAAGAAGGCA CCTTCCGGGA AGAAGATTCT	540
	CCTGAGATGT GCCGGAAGTG CCGCACAGGG TGTCCCAGAG GGATGGTCAA GGTCGGTGAT	600
	TGTACACCCCT GGAGTGACAT CGAATGTGTC CACAAAGAAT CAGGCATCAT CATAGGAGTC	660
35	ACAGTTGCAG CCGTAGTCTT GATTGTGGCT GTGTTTGTGTT GCAAGTCTTT ACTGTGGAAG	720
	AAAGTCCTTC CTIACCTGAA AGGCATCTGC TCAGGTGGTG GTGGGGACCC TGAGCGTGTG	780

	GACAGAAGCT CACAACGACC TGGGGCTGAG GACAATGTCC TCAATGAGAT CGTGAGTATC	840
	TTGCAGCCCC CCCAGGTCCC TGAGCAGGAA ATGGAAGTCC AGGAGCCAGC AGAGCCAACA	900
	GGTGTCAACA TGTTGTCCCC CGGGGAGTCA GAGCATCTGC TGGAACCGGC AGAAGCTGAA	960
	AGGTCTCAGA GGAGGAGGCT GCTGGTTCCA GCAAATGAAG GTGATCCCAC TGAGACTCTG	1020
5	AGACAGTGTCT CCGATGACTT TGCAGACTTG GTGCCCTTGT ACTCCTGGGA GCCGCTCATG	1080
	AGGAAGTTGG GCCTCATGGA CAATGAGATA AAGGTGGCTA AAGCTGAGGC AGCGGGCCAC	1140
	AGGGACACCT TGTACACGAT GCTGATAAAG TGGGTCAACA AAACCGGGCG AGATGCCTCT	1200
	GTCCACACCC TGCTGGATGC CTTGGAGACG CTGGGAGAGA GACTTGCCAA GCAGAAGATT	1260
	GAGGACCACT TGTTGAGCTC TGGAAAGTTC ATGTATCTAG AAGGTAATGC AGACTCTGCC	1320
10	ATGTCCTAAG TGTGATTCTC TTCAGGAAGT CAGACCTTCC CTGGTTTACC TTTTTCTGG	1380
	AAAAAGCCCC ACTGGACTCC AGTCAGTAGG AAAGTGCCAC AATTGTCACA TGACCGGTAC	1440
	TGGAAGAAC TCTCCCATCC AACATCACCC AGTGGATGGA ACATCCTGTA ACTTTTCACT	1500
	GCACTTGGCA TTATTTTAT AAGCTGAATG TGATAATAAG GACACTATGG AAATGTCTGG	1560
	ATCATTCCGT TTGTGCGTAC TTTGAGATTG GGTTTGGGAT GTCATTGTT TCACAGCACT	1620
15	TTTTTATCCT AATGTAAATG CTTTATTTAT TTATTTGGC TACATTGTAA GATCCATCTA	1680
	CACAGTCGTT GTCCGACTTC ACTTGATACT ATATGATATG AACCTTTTT GGGTGGGGGG	1740
	TGCGGGGCAG TTCACTCTGT CTCCCAGGCT GGAGTGCAAT GGTGCAATCT TGGCTCACTA	1800
	TAGCCTTGAC CTCTCAGGCT CAAGCGATT TCCCACCTCA GCCATCCAAA TAGCTGGGAC	1860
	CACAGGTGTG CACCACCAAG CCCGGCTAAT TTTTTGTATT TTGTCTAGAT ATAGGGGCTC	1920
20	TCTATGTTGC TCAGGGTGGT CTCGAATTCC TGGACTCAAG CAGTCTGCC ACCTCAGACT	1980
	CCCAAAGCGG TGGAATTAGA GGCGTGAGCC CCCATGCTTG GCCTTACCTT TCTACTTTA	2040
	TAATTCTGTA TGTTATTATTT TTATGAACAT GAAGAAACTT TAGTAAATGT ACTTGTTTAC	2100
	ATAGTTATGT GAATAGATTA GATAAACATA AAAGGAGGAG ACATACAATG GGGGAAGAAG	2160
	AAGAAGTCCC CTGTAAGATG TCACTGTCTG GGTTCCAGCC CTCCCTCAGA TGTACTTTGG	2220
25	CTTCAATGAT TGGCAACTTC TACAGGGGCC AGTCCTTGA ACTGGACAAAC CTTACAAGTA	2280
	TATGAGTATT ATTTATAGGT AGTTGTTAC ATATGAGTCG GGACCAAAGA GAACTGGATC	2340
	CACGTGAAGT CCTGTGTGTG GCTGGTCCCT ACCTGGGCAG TCTCATTTGC ACCCATAGCC	2400
	CCCATCTATG GACAGGCTGG GACAGAGGA GATGGGTTAG ATCACACATA ACAATAGGGT	2460
	CTATGTCATA TCCCAAGTGA ACTTGAGCCC TGTTTGGGCT CAGGAGATAG AAGACAAAAT	2520
30	CTGTCCTCCCC ACGTCTGCCA TGGCATCAAG GGGGAAGAGT AGATGGTGT TGAGAATGGT	2580
	GIGAAATGGT TGCCATCTCA GGAGTAGATG GCCCGGCTCA CTTCTGGTTA TCTGTCACTC	2640
	TGAGCCCCATG AGCTGCCTTT TAGGGTACAG ATTGCCTACT TGAGGACCTT GGCGCTCTG	2700
	TAAGCATCTG ACTCATCTCA GAAATGTCAA TTCTTAAACA CTGTGGCAAC AGGACCTAGA	2760
	ATGGCTGACG CATTAAAGGTT TTCTCTTGT GTCCTGTTCT ATTATTGTT TAAGACCTCA	2820
35	GTAACCATT T CAGCCTCTTT CCAGCAAACC CTTCTCCATA GTATTTCAGT CATGGAAGGA	2880
	TCATTATGC AGGTAGTCAT TCCAGGAGTT TTGGTCTTT TCTGTCTCAA GGCATTGTGT	2940

	GTTCCTGTTCC GGGACTGGT TGGGTGGAC AAAGTTAGAA TTGCCTGAAG ATCACACATT	3000
	CAGACTGTTG TGTCTGTGGA GTTTTAGGAG TGGGGGGTGA CCTTTCTGGT CTTTGCACCTT	3060
	CCATCCTCTC CCACATTCCAT CTGGCATCCC CACCGTTGT CCCCTGCACT TCTGGAAGGC	3120
	ACAGGGTGCT GCTGCTTCCT GGTCTTGCC TTTGCTGGC CTTCTGTGCA GGACGCTCAG	3180
5	CCTCAGGGCT CAGAAGGTGC CAGTCCGGTC CCAGGTCCCT TGTCCCTTCC ACAGAGGCCT	3240
	TCCTAGAAGA TGCATCTAGA GTGTCAGCCT TATCAGTGT TAAGATTTTT CTTTTATTTT	3300
	TAATTTTTT GAGACAGAAC CTCACTCTCT CGCCCAGGCT GGAGTGCAAC GGTACGATCT	3360
	TGGCTCAGTG CAACCTCCGC CTCTGGGTT CAAGCGATTC TCGTGCCTCA GCCTCCGGAG	3420
	TAGCTGGGAT TGCAGGCACC CGCCACCAACG CCTGGCTAAT TTTGTATTT TTAGTAGAGA	3480
10	CGGGGTTTCA CCATGTTGGT CAGGCTGGTC TCGAACTCCT GACCTCAGGT GATCCACNTT	3540
	GGCCTCCGAA AGTGCTGGGA TATAAAGGC GTGAGCCACC AGCCAGGCCA AGATATTNTT	3600
	NTAAAGNNAG CTTCCGGANG ACATGAAATA ANGGGGGGTT TTGTTGTTTA GTAACATTNG	3660
	GCTTTGATAT ATCCCCAGGC CAAATNGCAN GNGACACAGG ACAGCCATAG TATAGTGTGT	3720
	CACTCGTGGT TGGTGTCCCT TCATGGTTCT GCCCTGTCAA AGGTCCCTAT TTGAAATGTG	3780
15	TTATAATACA AACAAAGGAAG CACATGTGT ACAAAATACT TATGTATTTA TGAATCCATG	3840
	ACCAAAATTAA ATATGAAACC TTATATAAAA AAAAAAAA A	3881

## (2) INFORMATION FOR SEQ ID NO:2:

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## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 411 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single

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- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: protein

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

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	Met Glu Gln Arg Gly Gln Asn Ala Pro Ala Ala Ser Gly Ala Arg Lys	
	1 5 10 15	
	Arg His Gly Pro Gly Pro Arg Glu Ala Arg Gly Ala Arg Pro Gly Pro	
	20 25 30	
35	Arg Val Pro Lys Thr Leu Val Leu Val Val Ala Ala Val Leu Leu Leu	
	35 40 45	
	Val Ser Ala Glu Ser Ala Leu Ile Thr Gln Gln Asp Leu Ala Pro Gln	
	50 55 60	

	Gln Arg Ala Ala Pro Gln Gln Lys Arg Ser Ser Pro Ser Glu Gly Leu			
	65	70	75	80
	Cys Pro Pro Gly His His Ile Ser Glu Asp Gly Arg Asp Cys Ile Ser			
	85	90	95	
5	Cys Lys Tyr Gly Gln Asp Tyr Ser Thr Gln Trp Asn Asp Leu Leu Phe			
	100	105	110	
	Cys Leu Arg Cys Thr Arg Cys Asp Ser Gly Glu Val Glu Leu Ser Pro			
	115	120	125	
	Cys Thr Thr Thr Arg Asn Thr Val Cys Gln Cys Glu Glu Gly Thr Phe			
10	130	135	140	
	Arg Glu Glu Asp Ser Pro Glu Met Cys Arg Lys Cys Arg Thr Gly Cys			
	145	150	155	160
	Pro Arg Gly Met Val Lys Val Gly Asp Cys Thr Pro Trp Ser Asp Ile			
	165	170	175	
15	Glu Cys Val His Lys Glu Ser Gly Ile Ile Ile Gly Val Thr Val Ala			
	180	185	190	
	Ala Val Val Leu Ile Val Ala Val Phe Val Cys Lys Ser Leu Leu Trp			
	195	200	205	
	Lys Lys Val Leu Pro Tyr Leu Lys Gly Ile Cys Ser Gly Gly Gly			
20	210	215	220	
	Asp Pro Glu Arg Val Asp Arg Ser Ser Gln Arg Pro Gly Ala Glu Asp			
	225	230	235	240
	Asn Val Leu Asn Glu Ile Val Ser Ile Leu Gln Pro Thr Gln Val Pro			
	245	250	255	
25	Glu Gln Glu Met Glu Val Gln Glu Pro Ala Glu Pro Thr Gly Val Asn			
	260	265	270	
	Met Leu Ser Pro Gly Glu Ser Glu His Leu Leu Glu Pro Ala Glu Ala			
	275	280	285	
	Glu Arg Ser Gln Arg Arg Arg Leu Leu Val Pro Ala Asn Glu Gly Asp			
30	290	295	300	
	Pro Thr Glu Thr Leu Arg Gln Cys Phe Asp Asp Phe Ala Asp Leu Val			
	305	310	315	320
	Pro Phe Asp Ser Trp Glu Pro Leu Met Arg Lys Leu Gly Leu Met Asp			
	325	330	335	
35	Asn Glu Ile Lys Val Ala Lys Ala Glu Ala Ala Gly His Arg Asp Thr			
	340	345	350	
	Leu Tyr Thr Met Leu Ile Lys Trp Val Asn Lys Thr Gly Arg Asp Ala			
	355	360	365	
	Ser Val His Thr Leu Leu Asp Ala Leu Glu Thr Leu Gly Glu Arg Leu			
40	370	375	380	
	Ala Lys Gln Lys Ile Glu Asp His Leu Leu Ser Ser Gly Lys Phe Met			
	385	390	395	400

Tyr Leu Glu Gly Asn Ala Asp Ser Ala Met Ser End  
 405   410 411

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## (2) INFORMATION FOR SEQ ID NO:3:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1062 base pairs

(B) TYPE: nucleic acid

10 (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

15	ATGACCTCCT TTTCTGCTTG CGCTGCACCA GGTGTGATTG AGGTGAAGTG GAGCTAAGTC CCTGCACCAAC GACCAGAAC ACAGTGTGTC AGTGCAGAAGA AGGCACCTTC CGGGAAAGAAG	60 120
	ATTCTCCTGA GATGTGCCGG AAGTGCAGCA CAGGGTGTCC CAGAGGGATG GTCAAGGTG GTGATTGTAC ACCCTGGAGT GACATCGAAT GTGTCCACAA AGAACATCAGGC ATCATCATAG	180 240
20	GAGTCACAGT TGCAGCCGTA GTCTTGATTG TGGCTGTGTT TGGCTGCAAG TCTTTACTGT GGAAGAAAAGT CCTTCCTTAC CTGAAAGGCA TCTGCTCAGG TGGTGGTGGG GACCCCTGAGC GTGTGGACAG AAGCTCACAA CGACCTGGGG CTGAGGACAA TGTCCCTCAAT GAGATCGTGA GTATCTTGCA GCCCACCCAG GTCCCTGAGC AGGAAATGGA AGTCCAGGAG CCAGCAGAGC	300 360 420 480
	CAACAGGTGT CAACATGTTG TCCCCCGGGG AGTCAGAGCA TCTGCTGGAA CCGGCAGAAG	540
25	CTGAAAGGTC TCAGAGGAGG AGGCTGCTGG TTCCAGCAAA TGAAGGGTGT CCCACTGAGA CTCTGAGACA GTGCTTCGAT GACTTTGCAAG ACTTGGTGCC CTTTGACTCC TGGGAGCCGC TCATGAGGAA GTTGGGCCTC ATGGACAATG AGATAAAAGGT GGCTAAAGCT GAGGCAGCGG GCCCACAGGGA CACCTTGAC ACGATGCTGA TAAAGTGGGT CAACAAAACC GGGCGAGATG	600 660 720 780
	CCTCTGTCCA CACCTGCTG GATGCCCTGG AGACGCTGGG AGAGAGACTT GCACAGCAGA	840
30	AGATTGAGGA CCACCTGTTG AGCTCTGGAA AGTTCATGTA TCTAGAAGGT AATGCAGACT CTGCCATGTC CTAAGTGTGA TTCTCTTCAG GAAGTCAGAC CTTCCCTGGT TTACCTTTTT TCTGGAAAAA GCCCAACTGG ACTCCAGTCA GTAGGAAAGT GCCACAATIG TCACATGACC GGTACTGGAA GAAACTCTCC CATCCAACAT CACCCAGTGG AT	900 960 1020 1062

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## (2) INFORMATION FOR SEQ ID NO:4:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 303 amino acids

(B) TYPE: amino acid

40 (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

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	Asp	Leu	Leu	Phe	Cys	Leu	Arg	Cys	Thr	Arg	Cys	Asp	Ser	Gly	Glu	Val
	1					5				10					15	
	Glu	Leu	Ser	Pro	Cys	Thr	Thr	Thr	Arg	Asn	Thr	Val	Cys	Gln	Cys	Glu
						20					25				30	
10	Glu	Gly	Thr	Phe	Arg	Glu	Glu	Asp	Ser	Pro	Glu	Met	Cys	Arg	Lys	Cys
						35				40				45		
	Arg	Thr	Gly	Cys	Pro	Arg	Gly	Met	Val	Lys	Val	Gly	Asp	Cys	Thr	Pro
						50			55			60				
15	Trp	Ser	Asp	Ile	Glu	Cys	Val	His	Lys	Glu	Ser	Gly	Ile	Ile	Ile	Gly
						65			70			75			80	
	Val	Thr	Val	Ala	Ala	Val	Val	Leu	Ile	Val	Ala	Val	Phe	Val	Cys	Lys
						85			90			95				
	Ser	Leu	Leu	Trp	Lys	Lys	Val	Leu	Pro	Tyr	Leu	Lys	Gly	Ile	Cys	Ser
						100			105			110				
20	Gly	Gly	Gly	Asp	Pro	Glu	Arg	Val	Asp	Arg	Ser	Ser	Gln	Arg	Pro	
						115			120			125				
	Gly	Ala	Glu	Asp	Asn	Val	Leu	Asn	Glu	Ile	Val	Ser	Ile	Leu	Gln	Pro
						130			135			140				
	Thr	Gln	Val	Pro	Glu	Gln	Glu	Met	Glu	Val	Gln	Glu	Pro	Ala	Glu	Pro
25						145			150			155			160	
	Thr	Gly	Val	Asn	Met	Leu	Ser	Pro	Gly	Glu	Ser	Glu	His	Leu	Leu	Glu
						165			170			175				
	Pro	Ala	Glu	Ala	Glu	Arg	Ser	Gln	Arg	Arg	Arg	Leu	Leu	Val	Pro	Ala
						180			185			190				
30	Asn	Glu	Gly	Asp	Pro	Thr	Glu	Thr	Leu	Arg	Gln	Cys	Phe	Asp	Asp	Phe
						195			200			205				
	Ala	Asp	Leu	Val	Pro	Phe	Asp	Ser	Trp	Glu	Pro	Leu	Met	Arg	Lys	Leu
						210			215			220				
	Gly	Leu	Met	Asp	Asn	Glu	Ile	Lys	Val	Ala	Lys	Ala	Glu	Ala	Ala	Gly
35						225			230			235			240	
	His	Arg	Asp	Thr	Leu	Tyr	Thr	Met	Leu	Ile	Lys	Trp	Val	Asn	Lys	Thr
						245			250			255				
	Gly	Arg	Asp	Ala	Ser	Val	His	Thr	Leu	Leu	Asp	Ala	Leu	Glu	Thr	Leu
						260			265			270				
40	Gly	Glu	Arg	Leu	Ala	Lys	Gln	Lys	Ile	Glu	Asp	His	Leu	Leu	Ser	Ser
						275			280			285				

Gly Lys Phe Met Tyr Leu Glu Gly Asn Ala Asp Ser Ala Met Ser  
290 295 300